



## Scotch Hall Phase 2 Site Investigation

AWN Consulting was commissioned to design, project manage and supervise a comprehensive environmental and geotechnical site investigation for phase 2 of the Scotch Hall mixed use development in Drogheda.

The site and adjoining lands were historically used for industrial activities that may have resulted in contamination of the site. The principal aims of the project were to:

- assess the presence, nature and extent of any soil contamination at the site
- classify existing fill/soil for the purposes of landfill disposal
- assess groundwater quality and groundwater level fluctuations
- assess soil gas concentrations

In addition, the project engineers required comprehensive geotechnical information on the ground conditions at the site to inform the engineering requirements for the construction of the development.

Initially, a desktop assessment was carried out to establish current and historic site uses, review previous site investigation reports, the EIS and any available information on the geology and hydrogeology of the site. Site visits were carried out as well as consultation with the project engineers and contractor.

Once the background assessment was complete, the design of the contamination classification programme was carried out.

The site investigation comprised 46 no. trial pits at 20m centres across the entire site, 25 no. boreholes, soil sampling, gas monitoring, groundwater level monitoring and groundwater sampling with 191 no. soil samples and 3 no. groundwater samples collected for further analysis.

All investigation work was carried out in accordance with the relevant requirements of BS10175:2001 Investigation of Potentially Contaminated Sites – Code of Practice and relevant EPA and UK Environmental Agency Guidance.

Soil and groundwater analyses were carried out for a range of parameters at an accredited laboratory and the results were used to determine if the soil and/or groundwater was contaminated and to classify the soil for disposal purposes in accordance with the criteria specified in Council Decision 2003/33/EC for inert, non-hazardous and hazardous waste.

A comprehensive technical report was compiled detailing the findings of the site investigation, and included recommendations for managing soil excavated from the site. AWN subsequently supervised the segregation, excavation and transport off site of soils excavated during the construction phase to ensure it was appropriately segregated and disposed off as inert, non-hazardous or hazardous.